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(54) **PROGRAM ERROR DETECTING METHOD AND  
ERROR DETECTING DEVICE**

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(57) Abstract:

PURPOSE: To easily find an error at the time of program execution and to improve the efficiency of program development.

CONSTITUTION: When a source program 11 is converted into an executable format 13, a compiler 12 automatically adds a code for detecting variable type conditions not being satisfied to statements in which variables are substituted. When the source program to which the codes are added is executed, each time a substitute statement is executed, its variable type is checked and an error such as data substitution in a different variable type is found. The substitution of data in different variable types is caused by a pointer variable error such as an error in arithmetic at the time of a change in pointer at the time of access exceeding the range of subscripts of an array or access to data, so the error at the time of the program execution can easily be found. The program can, therefore, be developed with efficiency.

